

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/067601 A3

- (51) International Patent Classification⁷: C12P 21/06, C12N 5/00, 15/00, 15/63, A01N 43/04, 63/00
- (21) International Application Number: PCT/US2005/000302
- (22) International Filing Date: 6 January 2005 (06.01.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/535,263 9 January 2004 (09.01.2004) US
- (71) Applicant (for all designated States except US): NEOSE TECHNOLOGIES, INC. [US/US]; 102 Witmer Road, Horsham, PA 19044 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): JOHNSON, Karl, F. [US/US]; 5320 Ivy Stream Road, Hatboro, PA 19040 (US). BEZILA, Dan [US/US]; 181 Montgomery Drive, Harleysville, PA 19438 (US). NGO, Winnie [US/US]; 116 Byberry Road, Haltboro, PA 19040 (US). HAKES, David [US/US]; 14 Fern Avenue, Willow Grove, PA 19090 (US).
- (74) Agents: BASTIAN, Kevin, L. et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
19 January 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/067601 A3

(54) Title: VECTORS FOR RECOMBINANT PROTEIN EXPRESSION IN E.COLI

(57) Abstract: The present invention relates to methods of providing a protein product to a customer. In particular, the invention relates methods of using protein expression vectors to produce proteins to be provided to a client. The invention also provides vectors for the cloning and expression of proteins, including reagent proteins and therapeutic proteins.